BRUHATH BANGALORE MAHANAGARA PALIKE

Ward 14, Bagalagunte

NAME OF WORK :	**Improvements to drains at near Byraveshwara Circle 4th & 5th Cross roads in Ward No 14, Bagalagunte**

Estimated Cost	**20.00**	**Lakhs**

Sl.No.	Description of work	Measurments No.s	L	B	D	Qty	Unit	Rate	Amount
1	Removing B.S slab of drain and stacking (PWD SR 2016-17, Page No.25, Item No. 5.32)								
		1	2	115.00	0.90	207.00			
	Considering 60% of Qty					124.20			
					Total qty.	**124.20**	**sqm**	**65.72**	**8162.00**
2	Refixing stone slabs of drains and pointing in CM 1:3 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWD SR 2016-17, Page No.25, Item No. 5.33)								
	Qty vide item No.1					124.20			
					Total qty.	**124.20**	**sqm**	**80.56**	**10006.00**
3	Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work..(PWD SR 2016-17, Page No.142, Item No. 19.1) including Conveying the excavated earth silt, debris and over burden earth etc., to lead of 0 to 5 kms distance by using private vehicle this includes the cost of loading and unloading charges etc., complete as per the direction of Engineer-in-charge of the work								
		1	2	115.00	0.50	0.50	57.50		
	cutting	1	1	500.00	0.75	0.30	112.50		
					Total qty.	**170.00**	**sqm**	**170.92**	**29056.00**
4	KSRB 4 -1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth,including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWD SR 2016-17, Page No.12, Item No. 4.3)								
		1	2	115.00	0.45	0.15	15.52		
					Total qty.	**15.52**	**sqm**	**5159.02**	**80068.00**

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	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix M1:2:4 with cement @240 kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.6) PW, P & IWTD - SR 2016-17)									
	drain bottom	1	2	115.00	0.30	0.15	10.35			59693.00
						Total qty.	**10.35**	**cum**	**5767.46**	
6	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick (P. 25 I. 5.31.1) Page No. 25/ Item No. 5.31.1/ PWD SR 2016-17									
	Qty vide item No.1						207.00			
	Deduct Availabe Qty Vide Iteam No 2						124.20			**55118.00**
						Total qty.	**82.80**	**sqm**	**665.68**	
7	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 25/ Item No. 5.27/ PWD SR 2016-17									
		2	2	115.00		0.40	184.00			182752.00
						Total qty.	**184.00**	**sqm**	**993.22**	
8	Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mmc/c bothways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials - Data rate approved by Chief Engineer, Dasarahalli zone									
		1	2	115.00	0.90		207.00			331200.00
						Total qty.	**207.00**	**sqm**	**1600.00**	
9	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.Page No 149/ Item No. 19.64 PWD SR 2016-17									
	cutting	1	1	500.00	0.75		375.00			1988.00
						Total qty.	**375.00**	**cum**	**5.30**	
10	KSRRB M400-1 For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2016-17									
		1	1	500.00	0.75	0.15	56.25			85443.00
						Total qty.	**56.25**	**cum**	**1518.98**	

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	Providing, laying, spreading and compacting stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Complete as per specifications. MORTH Specification No.406 [P.No.158- It.No20.18]								
	cutting	1	1	500.00	0.75	0.15	56.25		
						Total qty.	56.25	sqm	1768.08	99455.00
	Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of .60kg /sqm using mechanial means complete as per Specifications. (Pg.no.160, It.no.21.6)								
	cutting	1	1	500.00	0.75		375.00		
						Total qty.	375.00	sqm	27.56	10335.00
3	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. (Pg.no.161, It.no.21.2)								
		1	1	500.00	5.00		2500.00		
						Total qty.	2500.00	sqm	3.18	7950.00
14	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2016-17, P.No.162, I No.21.11.6)								
	cutting	1	1	500.00	0.75	0.05	18.75		
						Total qty.	18.75	cum	5237.46	98202.00
15	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.(Pg No.160 It. No.21.7)								
		1	1	500.00	0.75		375.00		
		1	1	500.00	5.00		2500.00		
						Total qty.	2875.00	sqm	11.66	33523.00
16	KSRRB M500-19. Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, pre mixed with bituminous binder and filler, transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment . Rolling with smooth wheeled Vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause no 500.9 complete in all respects complete as per specifications. MORTH specification No509, using 100/120 TPH capacity H.M.P.with sensor paver Gr -II (30mm to 45mm) with 6% VG-Bitumen (P-165, It, 21.22.2.)								
		1	1	500.00	5.00	0.04	100.00		
						Total qty.	100.00	cum	7270.54	727054.00
									Sub Total	1820005.00

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Qc Charges 1%+KRIDL charges	175600.00
Miscelleneous and rounding off	4395.00
Total	2000000.00

(Rupees Twenty Lakhs Only)

ERTIFICATE

1. *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2. *Certified that the work is not split up*
3. *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4. *Certified that Adequate & necessary provisions have made in the estimate.*
5. *Certified that the above area comes under BBMP limit*
6. *This Work is not included in any other work taken up*

Asst Engineer
Ward-14

Assistant Executive Engineer
Dasarahalli Sub Division
B.B.M.P

Excecutive Engineer
Dasarahalli Division
B.B.M.P

ನಂ.CE/AS/06/17-18 ದಿನಾಂಕ : 21/04/2017
ರೂ. Rs. 20.00 Lakhs only/-
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ.EE/TS/09/17-18 ದಿನಾಂಕ : 24.4.17
ರೂ. Twenty Lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

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